QC ABSTRACT

NAME OF WORK: Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel (Fe 500D)	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Steel (Fe550)	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
7	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1

8	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
10	RCC(M20)	Compressive Strength(7days and 28days)	4 sets	15.62	8	8
11	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	77.22	10	10
12	RCC(M25)	Compressive Strength(7days and 28days)	2 set /6-15 cum	8.73	4	4
13	GSB	SIEVE ANALYSIS	One Test		1	1
14	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
15	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
16	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1

17	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
18	TACK COAT	Rate of spread	One Test		1	1

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-01-01** **Date: 24-11-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.95	_
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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ಬೆಂಗಳೂರು-26

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-01-01** **Date: 20-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	22-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-01-01** **Date: 24-11-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-11-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-01-01** **Date: 24-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.22	_

* The results obtained are satisfactory as per standard requirements.

Note:

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Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-01-01** **Date: 23-11-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-01-01** **Date: 23-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2023-04-01-01** **Date: 23-11-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-11-22
Total weight taken	:	1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	201	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	168	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	229	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	153	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	—	—	—	—

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-04-01-01** **Date: 23-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.4	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	4.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Date: 22-11-22

Lab ID	:	**CP-2023-04-01-01**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	21-11-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500 D	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500D	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID	:	CP-2023-04-01-01 Date: 22-11-22
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	21-11-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.391	562	652	16.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	573	672	17.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	585	668	18.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2023-04-01-01 **Date: 12-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-12-22
Sample Type /Size	:	Precast Cover Slab (100mm thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	08/12/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.51	100.48	1.116	4718	100.9	21.4	19.9	24.9
2	Cover Slab-2	77.49	100.52	1.122	4715	102.3	21.7	20.2	25.2
3	Cover Slab-3	77.50	100.51	1.118	4716	101.1	21.4	19.9	24.9

* The results obtained are satisfactory as per standard requirements.

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-28

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-04-01-01** **Date: 12-12-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-12-22
Sample Type /Size	:	Precast Cover Slab (230mm thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	08/12/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.65	230.40	2.816	4735	100.8	21.3	19.8	24.7
2	Cover Slab-2	77.89	230.58	2.822	4764	101.7	21.3	19.9	24.8
3	Cover Slab-3	77.35	230.51	2.818	4698	102.4	21.8	20.3	25.3

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2023-04-01-01 **Date: 25-11-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	21-11-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	203	16484	32.814	1990.6	2023.1	Not less than 1800Kg/m^3
2	399	198	200	15800	32.101	2031.7		
3	398	203	200	16159	33.078	2047.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2023-04-01-01** **Date: 25-11-22**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	199	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	200	201	
3	404	203	200	
4	403	201	203	
5	402	203	200	
6	399	199	203	
7	400	199	202	
8	400	202	202	
9	402	202	202	
10	402	201	202	
11	404	201	201	
12	401	202	202	
13	401	200	201	
14	403	200	200	
15	402	202	199	
16	400	200	199	
17	404	199	199	
18	403	202	203	
19	400	201	201	
20	402	202	200	
Average of 20	402	201	201	

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಕಾರ್ಯಾಲಯ
ವ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Lab ID : CP-2023-04-01-01 Date: 25-11-22

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	199	79676	333.1	4.2	4.2
2	400	200	80125	336.8	4.2	
3	404	203	81900	336.0	4.1	
4	403	201	80995	333.3	4.1	
5	402	203	81517	339.0	4.2	
6	399	199	79653	338.9	4.3	
7	400	199	79633	340.5	4.3	
8	400	202	80653	336.1	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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Technical Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 14/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-12-22
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	07/12/2022	14/12/2022	151.72 X 149.15 X 150.03	22629	8.358	408.7	18.1	18.2
2	Drain Bottom Slab Concrete	M20	07/12/2022	14/12/2022	149.04 X 150.64 X 149.18	22452	8.669	407.2	18.1	
3	Drain Bottom Slab Concrete	M20	07/12/2022	14/12/2022	150.71 X 151.65 X 151.38	22856	8.832	417.2	18.3	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-01-01

Date: 04/01/2023

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.

Agency : Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.

Customer's Reference : BBMP/EE/BTP/WO/71/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-12-22

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CL5

Date of test : 04/01/2023

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	07/12/2022	04/01/2023	150.97 X 151.12 X 151.24	22814	8.308	536.5	23.5	23.1
2	Drain Bottom Slab Concrete	M20	07/12/2022	04/01/2023	149.19 X 149.17 X 150.47	22255	8.653	490.7	22.0	
3	Drain Bottom Slab Concrete	M20	07/12/2022	04/01/2023	150.13 X 150.43 X 149.71	22585	8.112	534.0	23.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 17/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-22
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/12/2022	17/12/2022	150.27 X 149.22 X 149.25	22425	8.163	423.1	18.9	18.6
2	Drain Side Wall Concrete	M20	10/12/2022	17/12/2022	151.23 X 149.80 X 151.11	22655	8.861	415.1	18.3	
3	Drain Side Wall Concrete	M20	10/12/2022	17/12/2022	150.78 X 149.55 X 151.23	22550	8.130	416.6	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 07/01/2023**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-22
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	10/12/2022	07/01/2023	150.18 X 150.84 X 150.58	22653	8.592	537.4	23.7	23.3
2	Drain Side Wall Concrete	M20	10/12/2022	07/01/2023	150.96 X 151.61 X 151.64	22888	8.633	509.5	22.3	
3	Drain Side Wall Concrete	M20	10/12/2022	07/01/2023	149.28 X 151.48 X 151.62	22614	8.558	538.6	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 20/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-12-22
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	13/12/2022	20/12/2022	150.27 X 151.22 X 149.44	22725	8.303	417.2	18.4	18.3
2	Culvert Bottom Raft Concrete	M20	13/12/2022	20/12/2022	151.07 X 150.63 X 150.59	22754	8.297	419.5	18.4	
3	Culvert Bottom Raft Concrete	M20	13/12/2022	20/12/2022	151.56 X 150.22 X 151.59	22767	8.227	413.1	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/01/2023

Lab ID	:	CP-2023-04-01-01
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-12-22
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	13/12/2022	10/01/2023	151.56 X 151.05 X 149.90	22892	8.957	544.8	23.8	23.3
2	Culvert Bottom Raft Concrete	M20	13/12/2022	10/01/2023	149.58 X 150.37 X 151.90	22493	8.678	508.2	22.6	
3	Culvert Bottom Raft Concrete	M20	13/12/2022	10/01/2023	151.32 X 150.89 X 151.96	22834	8.623	536.7	23.5	

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Note:

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Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-01-01 **Date: 23/12/2022**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.

Agency : Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.

Customer's Reference : BBMP/EE/BTP/WO/71/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-12-22

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	16/12/2022	23/12/2022	149.40 X 151.80 X 151.18	22679	8.227	426.2	18.8	18.4
2	Culvert Side Wall Concrete	M20	16/12/2022	23/12/2022	150.28 X 149.01 X 151.65	22393	8.156	405.6	18.1	
3	Culvert Side Wall Concrete	M20	16/12/2022	23/12/2022	150.69 X 150.69 X 151.62	22707	8.502	418.3	18.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 13/01/2023**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-22
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	16/12/2022	13/01/2023	149.10 X 150.20 X 151.88	22395	8.442	536.1	23.9	23.4
2	Culvert Side Wall Concrete	M20	16/12/2022	13/01/2023	149.01 X 151.09 X 149.85	22513	8.178	512.9	22.8	
3	Culvert Side Wall Concrete	M20	16/12/2022	13/01/2023	151.51 X 149.41 X 151.99	22637	8.223	533.7	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 26/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	19/12/2022	26/12/2022	150.71 X 150.71 X 151.44	22715	8.926	430.7	19.0	18.6
2	RCC	M20	19/12/2022	26/12/2022	149.88 X 151.20 X 150.29	22661	8.807	416.2	18.4	
3	RCC	M20	19/12/2022	26/12/2022	151.64 X 149.75 X 150.67	22709	8.420	417.6	18.4	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 16/01/2023**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	19/12/2022	16/01/2023	151.83 X 151.23 X 150.32	22961	8.391	544.5	23.7	23.2
2	RCC	M20	19/12/2022	16/01/2023	150.20 X 149.43 X 150.86	22445	8.202	496.0	22.1	
3	RCC	M20	19/12/2022	16/01/2023	151.30 X 149.49 X 149.88	22618	8.982	538.9	23.8	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 26/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RCC	M20	19/12/2022	26/12/2022	151.82 X 149.81 X 149.94	22743	8.388	412.0	18.1	18.2
2	RCC	M20	19/12/2022	26/12/2022	151.35 X 149.92 X 150.12	22692	8.408	413.7	18.2	
3	RCC	M20	19/12/2022	26/12/2022	151.41 X 149.32 X 151.26	22609	8.365	414.5	18.3	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-04-01-01
		Date: 16/01/2023
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	19/12/2022	16/01/2023	149.82 X 150.76 X 151.90	22587	8.910	520.8	23.1	23.0
2	RCC	M20	19/12/2022	16/01/2023	149.57 X 150.03 X 149.05	22439	8.142	496.1	22.1	
3	RCC	M20	19/12/2022	16/01/2023	151.63 X 150.80 X 150.42	22867	8.229	546.1	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 26/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	19/12/2022	26/12/2022	149.45 X 150.81 X 149.76	22538	8.396	407.1	18.1	18.2
2	RCC	M20	19/12/2022	26/12/2022	151.12 X 149.19 X 149.76	22545	8.685	412.8	18.3	
3	RCC	M20	19/12/2022	26/12/2022	151.07 X 149.40 X 151.74	22570	8.496	411.3	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 16/01/2023**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	19/12/2022	16/01/2023	151.81 X 149.79 X 150.88	22741	8.203	532.0	23.4	23.3
2	RCC	M20	19/12/2022	16/01/2023	149.89 X 149.76 X 149.70	22448	8.615	510.6	22.7	
3	RCC	M20	19/12/2022	16/01/2023	149.68 X 151.89 X 149.07	22735	8.966	541.8	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 26/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	19/12/2022	26/12/2022	151.13 X 151.58 X 150.49	22909	8.300	415.0	18.1	18.4
2	RCC	M20	19/12/2022	26/12/2022	150.22 X 150.96 X 151.98	22678	8.715	421.3	18.6	
3	RCC	M20	19/12/2022	26/12/2022	150.13 X 150.40 X 151.47	22579	8.480	419.8	18.6	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-01-01 **Date: 16/01/2023**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.

Agency : Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.

Customer's Reference : BBMP/EE/BTP/WO/71/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-12-22

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	19/12/2022	16/01/2023	149.99 X 151.02 X 151.05	22651	8.419	529.0	23.4	23.0
2	RCC	M20	19/12/2022	16/01/2023	150.25 X 149.39 X 151.70	22446	8.110	502.9	22.4	
3	RCC	M20	19/12/2022	16/01/2023	149.02 X 149.36 X 151.62	22257	8.760	518.9	23.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 26/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	19/12/2022	26/12/2022	151.54 X 150.87 X 150.72	22862	8.732	422.7	18.5	18.6
2	RCC	M20	19/12/2022	26/12/2022	151.34 X 150.14 X 149.29	22723	8.592	422.1	18.6	
3	RCC	M20	19/12/2022	26/12/2022	151.06 X 150.74 X 149.56	22771	8.603	423.6	18.6	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 16/01/2023**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	19/12/2022	16/01/2023	151.55 X 151.11 X 149.86	22900	8.876	541.7	23.7	23.1
2	RCC	M20	19/12/2022	16/01/2023	151.43 X 149.87 X 150.26	22696	8.996	513.7	22.6	
3	RCC	M20	19/12/2022	16/01/2023	149.12 X 151.73 X 150.81	22626	8.969	520.5	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-04-01-01** **Date: 06/12/2022**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.

Agency : Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.

Customer's Reference : BBMP/EE/BTP/WO/71/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-12-22

Customer ID : Sump Bottom Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Bottom Concrete	M25	29/11/2022	06/12/2022	149.29 X 151.74 X 149.86	22653	8.841	531.1	23.4	22.8
2	Sump Bottom Concrete	M25	29/11/2022	06/12/2022	149.13 X 151.85 X 151.68	22646	8.740	501.6	22.2	
3	Sump Bottom Concrete	M25	29/11/2022	06/12/2022	149.85 X 151.32 X 149.86	22676	8.738	519.3	22.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 27/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-12-22
Customer ID	:	Sump Bottom Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Bottom Concrete	M25	29/11/2022	27/12/2022	150.16 X 151.83 X 150.94	22799	8.413	629.7	27.6	27.4
2	Sump Bottom Concrete	M25	29/11/2022	27/12/2022	151.44 X 151.83 X 150.71	22993	8.653	602.7	26.2	
3	Sump Bottom Concrete	M25	29/11/2022	27/12/2022	151.83 X 151.28 X 151.64	22970	8.124	649.1	28.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 09/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-22
Customer ID	:	Sump Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Roof Concrete	M25	02/12/2022	09/12/2022	149.52 X 151.03 X 151.96	22582	8.557	538.7	23.9	23.1
2	Sump Roof Concrete	M25	02/12/2022	09/12/2022	151.82 X 149.52 X 149.40	22700	8.542	512.2	22.6	
3	Sump Roof Concrete	M25	02/12/2022	09/12/2022	149.87 X 151.75 X 149.34	22742	8.178	522.8	23.0	

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-01-01** **Date: 30/12/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-22
Customer ID	:	Sump Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Sump Roof Concrete	M25	02/12/2022	30/12/2022	149.79 X 150.82 X 150.79	22590	8.408	614.4	27.2	27.5
2	Sump Roof Concrete	M25	02/12/2022	30/12/2022	150.71 X 151.42 X 150.09	22821	8.532	604.9	26.5	
3	Sump Roof Concrete	M25	02/12/2022	30/12/2022	149.59 X 149.60 X 150.42	22379	8.953	646.7	28.9	

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 02-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-12-22
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	31-12-22
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	2179	3176	31.76	68.24	55-90
9.5	1292	4468	44.68	55.32	35-65
4.75	1490	5958	59.58	40.42	25-50
2.36	2300	8258	82.58	17.42	10-20
0.85	1400	9658	96.58	3.42	2-10
0.425	250	9908	99.08	0.92	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 06-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-23
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	04-01-23
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 06-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	04-01-23

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 06-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	04-01-23

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 12-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer's Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-23
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	10-01-23

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	Min 45mm
2	Softening Point, °C	51.2	Min. 47°C
3	Ductility, cm	98	Min. 40cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2023-04-01-01**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore. **Date: 18-01-23**
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-23
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of Test	:	16-01-23
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2023-04-01-01**	**Date: 19-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.	
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.	
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	16-01-23	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	16-01-23	

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	13.0		
Strength	Aggregate Impact Value	19.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 19-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-23
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of Test	:	16-01-23

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 19-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-23
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of Test	:	16-01-23

Type of Binder	:	60/70
% of Binder Used	:	4.5%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	9.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2023-04-01-01**	**Date: 01-02-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.	
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.	
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	31-01-23	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	31-01-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479.5	479
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	4.50	4.60
7	Average percentage	%	4.55	

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Lab ID : CP-RW-2023-04-01-01 Date: 01-02-23

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479.5

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	47	47	9.8	90.2	71-95
13.2	55	102	21.3	78.7	56-80
4.75	190	292	60.9	39.1	38-54
2.36	48	340	70.9	29.1	28-42
0.3	50	390	81.3	18.7	7-21
0.075	60	450	93.8	6.2	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	48	48	10.0	90.0	71-95
13.2	60	108	22.5	77.5	56-80
4.75	170	278	58.0	42.0	38-54
2.36	50	328	68.5	31.5	28-42
0.3	56	384	80.2	19.8	7-21
0.075	63	447	93.3	6.7	2-8

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 25-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-23
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	23-01-23
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 27-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-23
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	23-01-23

Type of Binder	:	60/70
% of Binder Used	:	4.78%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	9.56gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 27-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-23
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	23-01-23

Type of Binder	:	60/70
% of Binder Used	:	4.78%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	9.56gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

****End of Report****

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 27-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	23-01-23

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
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Technical Manager

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-26

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 27-01-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	23-01-23

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2023-04-01-01 **Date: 02-02-23**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.

Agency : Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.

Customer Reference : BBMP/EE/BTP/WO/71/2022-23

Source of Sample : Sample supplied by Agency

Date of Receipt : 01-02-23

Type of Mix : BC (Bituminous Concrete)

Date of Test : 01-02-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	478	477.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.80	4.90
7	Average percentage	%	4.85	

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ಪೂರ್ವ ವಲಯ, ಬೆಂಗಳೂರು-560

Lab ID : CP-RW-2023-04-01-01 Date: 02-02-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 478

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.8	86.2	70-88
4.75	112	178	37.2	62.8	53-71
2.36	88	266	55.6	44.4	42-58
1.18	29	295	61.7	38.3	34-48
0.6	11	306	64.0	36.0	26-38
0.3	46	352	73.6	26.4	18-28
0.15	45	397	83.1	16.9	12-20
0.075	55	452	94.6	5.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 477.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.8	86.2	70-88
4.75	112	178	37.3	62.7	53-71
2.36	88	266	55.7	44.3	42-58
1.18	29	295	61.8	38.2	34-48
0.6	11	306	64.1	35.9	26-38
0.3	46	352	73.7	26.3	18-28
0.15	45	397	83.1	16.9	12-20
0.075	55	452	94.7	5.3	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2023-04-01-01** **Date: 02-02-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of tank and providing pump set for de-watering in flood areas in Ward no.05, Jakkur, Byatarayanapura Sub Division.
Agency	:	Sri. Chethan.P, No:03, 5th Cross, Lawrance Layout, Veerannapalya, A.C Post, Bangalore-45.
Customer Reference	:	BBMP/EE/BTP/WO/71/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-23
Type of Mix	:	Tack coat
Date of Test	:	01-02-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

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